INDEX TO THE ADVANCEMENT OF SCIENCE

Volume XXI, Nos. 89-94, 1964-65

Figures in bold type preceding page references indicate the parts of *The Advancement of Science* in which references will be found.

Titles marked with an asterisk (*) appear only in summary form in the record of Sectional Transactions at the Southampton Meeting (**93**, 444–487).

Titles of communications are frequently abbreviated.

ADAM, Kenneth, Education—responsibility of television, **93**, 480*
ADDYMAM, P. V., Dark Age settlement and economy in the Fenland Basin, **93**, 465*
Aerodynamics of structures, D. J. W. Richards and A. H. Yates, **93**, 446*
Age of advice, Eric Rea, **92**, 390, **93**, 480
AHRENS, Prof. L. H., Element distributions in igneous rocks, **89**, 73
ALCOCK, Leslie, Early settlement forms and social arrangements in Wales: archaeological evidence, **93**, 466*
ALLAN, Dr. D. A., Place of the museums in the work of the Societies, **93**, 486*
ALLCORN, Dr. Derek H., Women in industry—I. Homes, jobs and community, **93**, 484*
ALLEN, Gordon, Electronic colour correction, **93**, 444*
ANDREW, Sir Herbert, Education, responsibility of the State, **93**, 479*
Archaeology and history, Dr. C. A. Ralegh Radford, **92**, 349, **93**, 465
ARDENER, Edwin, The 'personal enemy' in African politics, **93**, 484*
Arid lands, geomorphological studies in, R. U. Cooke, R. F. Peel, M. F. Thomas and A. Warren, **93**, 458–459*
ARSCOTT, Dr. F. M., Mathematics teaching in colleges of technology, **93**, 446*
AUDLEY, Dr. R. J., Models for learning and choice, **93**, 470*
  Perception, **91**, 253
AUSTIN, J., Biochemical studies on zooplankton with reference to *Neomysis integer*, **93**, 452*
Aviation medicine, *see* Psychology and,

Background radiations and their origins, Prof. W. V. Mayneord, **90**, 127
BACON, F. W., Pensions provisions, State and private, **93**, 461*
BAINBRIDGE, V., Science and the sea fisheries, **90**, 117
BAKER, Dr. P. E., Geological history of Mt. Misery volcano, **93**, 450*
BANBURY, J., Computer applications to management, **93**, 447*
BARIĆ, Mrs. L., Redistribution in land reform—a Yugoslav case, **93**, 483*
BARNARD, Prof. G. A., The computer and problems of economics, **93**, 447*
BARROW, J. F., New Forest planning problems, **93**, 459*
BARRY, R. G., Rainfall and temperature in Central Southern England, **93**, 458*
BAXTER, S., Expanded polymers, **91**, 303
BEALE, Prof. G. H., Cytoplasmic inheritance in animals, **93**, 455*
BEAVAN, John, Education—responsibility of the Press, **93**, 479*
Beef industry, feeding systems in, D. G. Dempster, **89**, 93
BEESLEY, M. E., Cost of introducing road pricing in London, **93**, 461*
Behaviour, mathematical models for, R. J. Audley, D. E. Broadbent, W. Edwards and D. R. J. Laming, **93**, 469–470*
  science and, Lord Brain, **91**, 221
BELL, Prof. F. R., Effects of hypoglycaemia, hyperglycaemia and ischaemia on cerebral activity of sheep, **93**, 468*
BENN, Sir John, Financing technical development, **89**, 24
BENSON, Dr. A. J., Illusions of motion and attitude in flight, **93**, 473*
BERRIDGE, S. A., Catalysis in the petrochemicals industry, **93**, 448*
BEYNON, Prof. W. J. G., The ionosphere, **93**, 485*
BIDDLE, Martin, Excavations at Winchester, **93**, 464*
BOAL, Dr. F. W., Shopping patterns and the car, **93**, 456*
BOND, Dr. G. C., Theory of heterogeneous catalysis, **93**, 448*
BOOKS:
  for the general reader, N.B.L. list, **89**, 107, **90**, 217, **91**, 320, **93**, 492, **94**, 578
BOOTH, N., New approaches to examinations in chemistry, **93**, 449*
Botanical studies, M. J. P. Canny, M. Hollings, R. L. Lucas and A. Myers, **93**, 477*
BOTT, Dr. M. H. P., Geophysical investigation of the north-east Irish Sea, **93**, 450*
BOURNE, A. G., Co-operation between museums and local societies during National Nature Week, **93**, 487*
BRAIN, Lord, Science and behaviour, **91**, 221
BRAY, Dr. R. S., Malaria, monkeys and man, **93**, 453*
BRAY, W. J., Communication-satellite systems, **93**, 463*
British Association Annual Report, 1963–64, **90**, 191
  Officers for Southampton Meeting, **93**, 505
  publications, **93**, 496
BRITISH ASSOCIATION NEWS:
  Annual Meeting, Southampton, **89**, 103
  Area Committees, **90**, 113
    Sheffield one-day meetings, **93**, 488
    Southampton Young Scientists' Association, **94**, 576
    Sussex, **92**, 366
    Tees-side brains trust, **94**, 576
  Biological Stations, **89**, 104
  Central Lecture Service, **92**, 368, **94**
  Interaction of technologies, **91**, 317
  International courses, **92**, 368
  Youth Science Fortnight, **92**, 368
  Junior Meetings, **90**, 112, **92**, 366
    Tees-side, **93**, 488
  Kent Education Authority, **92**, 368
  Science Fairs, **92**, 367
  Training College project, **89**, 103
BROADBENT, D. E., Detection of faint signals, **93**, 469*
BROTHWELL, D. R., Biology of early British man, **93**, 464*

BROWN, Dr. Elizabeth, Distribution of the A B O and Rhesus (D) blood groups in the North of Scotland, **93**, 464*
BROWN, Dr. M. R., Infra-red quantum counter, **93**, 445*
BROWN, Dr. R. H. J., Shapes of birds: physical and biological factors influencing bird morphology, **93**, 455*
BRYANT, Dr. D. A., Particles from the sun, **93**, 444*
BUCHANAN, Dr. J. B., Autecology and the integrative approach to study of marine bottom fauna communities and their productivity, **93**, 453*
BULL, Dr. A. T., Enzymes of decay fungi, **93**, 475*
BULLERWELL, Dr. W., Regional gravity and magnetic geophysical surveys over Southern England and adjacent coastal seas, **93**, 451*
BURNHAM, Jack, High-altitude turbulence and supersonic aircraft, **93**, 485*

CADMAN, W. A., New Forest, conservation of wild life in, **93**, 479*
introduction and Mammalian fauna, **93**, 476*
planning problems, **93**, 459*
CAESAR, A. A. L., Planning and the geography of Great Britain, **91**, 230, **93**, 456
CAMPBELL, Sir Matthew, Land use in the Scottish Highlands; Historical aspects of the recommendations made by the Taylor Commission, **90**, 184
CANNY, Dr. M. J. P., Translocation in higher plants, **93**, 477*
CARNAGHAN, R. B. A., Biological effects of certain fungal toxins, **93**, 468*
CARTER, C. F., Economics of higher education, **93**, 459*
Cartography and communication of knowledge of earth's surface, F. W. Dunning, A. Goodall, D. Griffith, K. G. J. C. Knowles, D. H. T. Macmillan and A. C. Marles, **93**, 457–458*
Central nervous system, integrative function of, J. de C. Downer, E. G. Gray, G. M. Hughes and A. E. Robson, **93**, 454*
CHADWICK, Prof. Owen, Sermon, preached to members of the Association on August 30, 1964, **92**, 413
Chalkland farming trends, A. K. Giles, E. Lester and F. G. H. Lupton, **93**, 481–482*
Chance observation and the alert mind, Prof. R. V. Jones, **94**, 531
CHATTOPADHYAY, Dr. G., Caste and class in West Bengal, **93**, 483*
Chemical education, new attitudes to, N. Booth, D. G. Chisman, G. J. Hills and R. H. Maybury, **93**, 448–449*
Chemicals from petroleum—by catalytic reactions, S. A. Berridge, G. C. Bond and E. W. Duck, **93**, 448*
socially significant, R. A. E. Galley, L. Leadbeater and V. A. Petrow, **93**, 449*
Chemistry, contribution of new instruments to progress in, Sir Harry Melville, **92**, 331, **93**, 448
silicate structures and, Dr. H. F. W. Taylor, **89**, 17
CHESTERS, Prof. C. G. C., Fungal friends and foes, **93**, 474, **94**, 551
CHISMAN, D. G., Chemical education—introduction, **93**, 448*
COLES, V. R., Short-range forecasting, **93**, 485*
Colour and its reproduction, G. Allen, R. W. G. Hunt and I. Macwhirter, **93**, 444*
Computer, and language problems. Dr. M. Levison, **94**, 527
Computer applications in economics, management and air traffic control, J. Banbury, G. A. Barnard, S. Ratcliffe and C. B. Winsten, **93**, 447*
and languages, M. Levison, J. McDaniel and P. M. Woodward, **93**, 447*
Computers, communication and cognition, Prof. G. A. Miller, **93**, 417
Continental Shelf of N.W. Europe, M. H. P. Bott, D. Curry, T. F. Gaskell and A. H. Stride, **93**, 450*; J. B. Buchanan, J. H. Fraser and P. E. P. Norton, **93**, 453–454*
Conviction, sociological aspects of, Dr. J. P. Martin, **89**, 11
CONWAY, H. G., Engineers at the cross-roads, **92**, 359, **93**, 461
COOKE, R. U., Landforms in the Southern Atacama Desert, **93**, 459*
COOPE, Dr. G. R., Fossil insect faunas from late Quaternary deposits in Britain, **93**, 451, **94**, 564
CORKINDALE, K. G. G., Contribution of psychology to aviation, **93**, 472*
CORNER, Dr. D. C., Productivity in small and medium-sized businesses, **93**, 460*
CORNER, E. J. H., Kinabalu, the great mountain of Borneo, **93**, 477*
COSGROVE, M. E., Structures in the Upper Purbeck of Peveril Point, Swanage, **93**, 450*
COX, B. R., Voltage stability of power networks, **93**, 462*
CRAY, A. S., Producing low-cost milk, **93**, 480*
Criminality, psychology, of, P. W. Gillan and G. Trasler, **93**, 470*
criminal behaviour, biological basis of, H. J. Eysenck, **92**, 338, **93**, 470
Crop production, CO_2 factor in, P. Gaastra, R. Gardner and J. V. Lake, **93**, 481*
CUNLIFFE, Barry, Excavations at Roman site of Fishbourne, **93**, 464*
CUNNINGHAM, Dr. N. F., Metabolic and hormonal aspects of ovine pregnancy toxaemia, **93**, 468*
CURRY, D., Geology of the rock floor of the Western Approaches and the western English Channel, **93**, 450*
Cytoplasmic inheritance, G. H. Beale, J. L. Jinks and J. A. Roper, **93**, 454–455*

Darwin lecture by Dr. G. R. Coope on *Fossil insect faunas*, **93**, 451, **94**, 564
DAVIDSON, Prof. J. N., Structure and biosynthesis of nucleic acids, **93**, 467*
DAVIES, Dr. D. R., Nature and exploitation of radiation-induced genetic changes in plants, **93**, 477*
DEMPSTER, D. G., Feeding systems in the beef industry, **89**, 93
DIAMOND, D. R., Regional planning: the Scottish approach, **93**, 457*
Disease, wild animals and human, R. S. Bray, T. Wilson and C. A. Wright, **93**, 453*
DODD, Dr. F. H., Operation techniques in mechanisation of milk production, **93**, 480*
DOWNER, Dr. J. de C., Role of brain commissures in interhemispheric transfer of training in monkeys, **93**, 454*
DOWNES, D., Prospects for the Newsom boy, **93**, 372*
DREVER, Prof. J., Need, choice and supply in Higher Education, **93**, 472*
DUCK, Dr. E. W., Catalysis as a route to new rubbers, **93**, 448*
DUNNING, F. W., Uses of geological and tectonic maps, **93**, 457*
DUNNING, Dr. J. H., Inter-firm efficiency comparisons, **93**, 459*

East African volcanology, W. H. Wilcockson, **92**, 400, **93**, 450

Economic development, foreign trade problems in, Dr. Shu-Chin Yang, **89**, 27
Economics and business life, A. W. Knight, **93**, 460*
Economics in unwonted places, Prof. B. R. Williams, **93**, 431, 459
Education, responsibility and, K. Adam, H. Andrew, J. Beavan, H. L. Elvin, L. F. Gibbon, R. Gould, L. Paul, H. Pilkington, M. Young, **93**, 479–480*, F. Lincoln Ralphs, **92**, 379, **93**, 479
EDWARDS, Prof. K. C., Regional planning: an assessment of Great Britain, **93**, 457*
EDWARDS, M. V., Highland forestry as a modern method of vegetation management, **90**, 154
EDWARDS, N., Fresh-water limestones of the Oligocene of the Hampshire Basin, **93**, 450*
EDWARDS, Prof. Ward, Men and systems as Bayesian information processors, **93**, 469*
ELDRIDGE, J. E. T., Plant bargaining in steel: North-east case-studies, **93**, 484*
Electrical communication, W. J. Bray, W. A. Gambling and G. D. Sims, **93**, 463*
ELVIN, H. L., Education—responsibility of the universities, **93**, 479*
Endocrine system, biochemistry of, Prof. F. G. Young, **92**, 369, **93**, 466
Engineers at the cross-roads, H. G. Conway, **92**, 359, **93**, 461
EPSTEIN, Dr. T. Scarlett, Regional development and social change, **93**, 483*
ERNSTING, Sqdn/Ldr. J., Physiological effects of failure of the pressure cabins in passenger aircraft, **93**, 467*
EVANS, Dr. E. G. S., Intelligence, inhibition and strength of drive, **93**, 472*
EVANS, Dr. H. J., Sensitivity of plant species to ionizing radiation, **93**, 476*
Examining, new ways of, D. Hale, F. H. Sparrow and J. Wrigley, **93**, 470*
EYSENCK, Prof. J. H., Biological basis of criminal behaviour, **92**, 338, **93**, 470

Families, development cycle of, M. Harrington, M. Hewitt, J. H. J. Matthews and C. Turner, **93**, 482–483*
Fertility control by steroidal compounds, Dr. V. Petrow, **93**, 449
Fields and settlements, P. V. Addyman, L. Alcock, H. Halbertsma, J. G. Hurst, E. M. Jope, W. H. Manning, B. T. Perry and T. Jones Pierce, **93**, 465–466*
Financing technical development, Sir John Benn, **89**, 24
Flight, biology of, R. H. J. Brown, C. G. Johnson and A. C. Neville, **93**, 455*
FORD, G. W. K., Gas lubrication and its use in specialised machines, **93**, 461*
FORD, J. M., Use of timber in commercial boatbuilding, **93**, 478*
Forestry and the industrial society, N. D. G. James and P. A. Wardle, **93**, 478*
  forests, need for, G. B. Ryle, **93**, 439, 478
FORREST, Dr. Derek, Attitudes of undergraduate women to smoking, **93**, 471*
FOSS, Brian M., Comparative study of affection, **93**, 469*
Fossil insect faunas from late Quaternary deposits in Britain, G. R. Coope, **93**, 451, **94**, 564
FOSTER, C. D., Cost of introducing road pricing in London, **93**, 461*
FRASER, Dr. J. H., Continental Shelf: plankton and its environment, **93**, 453*
FREEDMAN, Dr. Maurice, Changing leadership in Hong Kong New Territories, **93**, 484*
FRITH, Dr. R., Chemistry and thermodynamics in the high atmosphere, **93**, 485*
FRY, D. W., Atomic Energy Establishment at Winfrith, **93**, 461*
Fungal friends and foes, Prof. C. G. C. Chesters, **93**, 474, **94**, 551

GAASTRA, Dr. P., Physiological aspects of effect of carbon dioxide upon crop production, **93**, 481*
GALLEY, Dr. R. A. E., Pesticides in modern society, **93**, 449*
GAMBLING, Dr. W. A., Optical communications, **93**, 463*
GARDNER, R., Application of CO_2 enrichment of glasshouse atmospheres to commercial horticultural practice, **93**, 481*
GARWOOD, Dr. F. G., Accidents on motorways, **93**, 462*
GASKELL, Dr. T. F., Methods of studying the floor of Continental Shelves, **93**, 450*
GIBBON, L. F., Education—responsibility of the architect, **93**, 480*
GIDDENS, A., Theoretical problems in the sociology of suicide, **93**, 482, **94**, 522
GILES, A. K., Economic aspects of cereal production, **93**, 481*
GILLIAN, Mrs. P. W., Impulsiveness and female delinquency, **93**, 470*
GIMINGHAM, C. H., Land use in the Scottish Highlands: composition of the vegetation and its balance with environment, **90**, 148
GOKSØYR, Dr. J., Wood-decomposing fungi and their adaptation to life in wood, **93**, 474*
GOODALL, A., Photomechanical aids in modern map production, **93**, 457*
GOULD, G. N., Herd management, health and production, **93**, 481*
GOULD, Sir Ronald, Education—responsibility of the teacher, **93**, 479*
GRAD, Dr. Jacqueline, Social implications of home treatment for mentally ill and subnormal patients, **93**, 471*
GRASSIE, Dr. N., Degradation of polymers, **91**, 297
GRAY, Dr. E. G., How the electron microscope has given new understanding of structure of the brain, **93**, 454*
GRAY, Hugh, 1962 Indian General Election, **93**, 484*
GRAY, Malcolm, Place of fishing in the economy of the north-west, 1886–1914, **90**, 183
Great Britain, planning and the geography of, A. A. L. Caesar, **91**, 230, **93**, 456
  regional planning problems in, D. R. Diamond, K. C. Edwards, G. Humphrys, R. T. White and M. J. Wise, **93**, 456–457*
GREEN, F. H. W., Climate of the Scottish uplands, **90**, 144
GRIFFITH, Col. D., Cartographic information recorded on Ordnance Survey maps, **93**, 457*
GRIPAIOS, H., International oil prices, **93**, 460*
GULLAND, Dr. J. A., Collapse of the whaling industry, **93**, 453*

HALBERTSMA, Dr. H., Frisian dwelling-mounds, **93**, 465*
HALE, Dennis, Development of calibrated tests in mathematics, **93**, 470*
Hampshire Basin, climatological and hydrological studies, R. G. Barry and J. Ineson, **93**, 458*
  geology of, M. E. Cosgrove, N. Edwards and F. Hodson, **93**, 449–450*
HANNEN, Cdr. E. C., Development of divers' devices, **93**, 467*

HARLOW, Prof. Harry F., Behavioural approach to psychiatric theory, **93**, 469*
HARLOW, Dr. Margaret K., Behaviour of monkey mothers and their captive infants, **93**, 469*
HARRINGTON, Mrs. M., Life-stage and life-style, **93**, 483*
HEATHCOTE, R. L., Conservation or opportune use? the pastoralist's problem in semi-arid Australia, **89**, 47
HEMPLEMAN, H. V., Use of oxy-helium mixtures in diving, **93**, 467*
HEMSLEY, J. H., New Forest planning problems, **93**, 459*
HEWITT, Dr. Margaret, Development cycle of the family, **93**, 482*
High energy particle physics, M. Pentz, C. F. Powell and C. A. Ramm, **93**, 445*
HILLS, Prof. G. J., Recent trends towards integrating the teaching of chemistry and physics, **93**, 449*
HINDE, Prof. R. A., Mother-infant relations in group living rhesus monkeys, **93**, 469*
HININGS, C. R., Developments in empirical study of bureaucracy, **93**, 482*
HINSHELWOOD, Sir Cyril, a profile, **91**, 316
HIRST, Prof. Sir Edmund, Physical and chemical composition of woody materials, **93**, 474*
History, archaeology and, Dr. C. A. Ralegh Radford, **92**, 349
HOCKLEY, A. R., Temperature and activity of *Limnoria* in marine timbers, **93**, 452*
HODSON, Prof. F., Geology of the Hampshire Basin—introduction, **93**, 449*
HOGAN, Prof. W. P., The foreign sector and industrial structure, **93**, 459*
HOLLINGS, M., Die-back viruses of mushrooms, **93**, 477*
HOPKIN, V. D., Perception problems in radar tracking, **93**, 473*
HOWARD, J. L., Supply and use of imported timber, **93**, 478*
HUBBARD, Dr. C. E., *Spartina*—introduction, **93**, 473*
HUDSON, Prof. J. P., Irrigation problems under hot arid conditions, **93**, 480*
HUGHES, D. R., Physical variation in the British people today, **93**, 465*
HUGHES, Dr. G. M., Electrophysiological anatomy of invertebrate neurones, **93**, 454*
HUMPHRYS, G., Services in growth centres in regional planning, with reference to South Wales, **93**, 457*
HUNT, Dr. R. W. G., Perception of colour, **93**, 444*
HUNTER, R. F., Social behaviour and grazing management in hill sheep, **90**, 169
HURLEY, R. E., Electrical breakdown of a vacuum, **93**, 462*
HURST, J. G., Deserted mediaeval villages, **93**, 466*

Igneous rocks, element distributions in, Prof. L. H. Ahrens, **89**, 73
Industrial sociology, D. H. Allcorn, J. E. T. Eldridge and D. H. J. Morgan, **93**, 484–485*
INESON, Dr. J., Ground-water studies in chalk of the Hampshire Basin, **93**, 458*
Information transfer, *see* Nucleic acids and,
Ionising radiation, effects of on plants, D. R. Davies, H. J. Evans, G. R. Lane and R. Scott Russell, **93**, 476–477*
Ionosphere, sun and, J. A. Ratcliffe, **92**, 323, **93**, 444
Island floras, on the origin of, Prof. Dr. C. G. G. J. Van Steenis, **89**, 79
IZAKOV, Prof. Nikolai, Social implications of automation in the U.S.S.R., **93**, 483*

JAMES, N. D. G., Private forestry in the industrial society, **93**, 478*
JELLETT, J. H., Cargo loading and discharge, now and in the future, **93**, 461*
JINKS, Dr. J. L., Properties of extra-chromosomal inheritance, **93**, 454*
JOHNSON, Dr. C. G., Ecological and functional aspects of insect migration, **93**, 455*
JOHNSON, D. G., Pricing policy in manufacturing industry, **93**, 460*
JOHNSON, Dr. D. S., Malayan freshwater biology, **93**, 456*
JONES, Dr. F. Harden, Fish migrations, **93**, 452*
JONES, Prof. R. V., Chance observation and the alert mind, **94**, 531
JOPE, Prof. E. M., Fields and settlements in Early Ireland, **93**, 465*

KABATA, Dr. Z., Parasitological investigations in relation to fisheries research, **93**, 452*
KEEBLE, D. E., Why leave London?, **93**, 456*
KELLAWAY, G. A., Tectonic control of drainage pattern of Southern Britain, **93**, 251*
Kelvin lecture by Dr. W. G. Marshall on *Exploration of solids using thermal neutrons*, **93**, 445*
KERKHOF, Dr. W. P., Metric system versus non-metric system, **93**, 462*
KING, Dr. J. W., Top of the ionosphere, **93**, 444*
KNIGHT, A. W., Economics and business life, **93**, 460*
KNOWLES, K. G. J. C., The mapping of industry, **93**, 458*
KOPEC, Dr. Ada C., Blood group distributions in the United Kingdom, **93**, 464*
KUSHLICK, Dr. A., Wessex Survey of Mental Subnormality, **93**, 471*

LAKE, Dr. J. V., Carbon dioxide economy of glasshouse plants, **93**, 481*
LAMB, H. H., Britain's climate in the past, **93**, 487*
LAMBERT, Dr. Joyce M., Ecological status of *Spartina* in Britain, **93**, 473*
LAMING, Dr. D. R. J., Representation of choice-reactions by a random walk, **93**, 470*
Land use and reform, social implications of, L. Baric, G. Chattopadhyay and T. S. Epstein, **93**, 483*
in the Scottish Highlands, Prof. L. Dudley Stamp (Ed.), **90**, 141
the beneficent forest, H. M. Steven, **90**, 152
climate of Scottish uplands, F. H. W. Green, **90**, 144
and conservation in, V. C. Wynne-Edwards, **90**, 177
crofting in its national and international contexts, R. Urquhart, **90**, 188
fishing, place of in economy of north-west, 1886–1914, M. Gray, **90**, 183
forestry as a method of vegetation management, M. V. Edwards, **90**, 154
geographical background, H. A. Moisley, **90**, 141
Heather moors, management of, G. R. Miller, **90**, 163
sheep and cattle systems of, J. C. Robertson, **90**, 173
social behaviour and grazing management in, R. F. Hunter, **90**, 169
Taylor Commission, historical aspects of recommendations, M. Campbell, **90**, 184
vegetation, composition of, C. H. Gimingham, **90**, 148
vegetational patter, influence of management practices on, I. A. Nicholson, **90**, 158
LANE, Dr. G. R., Chromosome aberrations induced by radiations, **93**, 476*

LEADBEATER, Dr. L., Influence of metabolism on drug action, **93**, 449*
LEE, A. J., Recent international investigations of the fish stocks in the seas around Greenland, **93**, 452*
LE MAITRE, Dr. R., Volcanic history of Tristan da Cunha, **93**, 451*
LESTER, E., Pathological aspects of intensive cereal cultivation, **93**, 482*
LEVISON, Dr. M., Computer and language problems, **93**, 447, **94**, 527
LEWIS, Dr. D. T., Automatic methods in chemical analysis, **93**, 448*
Lichens, recent studies of, Dr. D. C. Smith (ed), **91**, 241
and atmospheric pollution, Dr. J. H. Tallis, **91**, 250
classification of, Dr. T. D. V. Swinscow, **91**, 241
symbiosis, Dr. G. D. Scott, **91**, 244
thallus as a functional unit in Nature, Dr. D. C. Smith, **91**, 248
LINFORD, E., Biochemical studies on zooplankton with reference to *Neomysis integer*, **93**, 452*
Lister Lecture, by Dr. V. B. Proudfoot, on *Bringing archaeology to life*, **93**, 466*
LLOYD, M. K., Fall-out and the grazing animal, **93**, 468*
Local archaeology, M. Biddle and B. Cunliffe, **93**, 464*
LOOKING AT SCIENCE:
biology films, **94**, 581
chemistry films, **89**, 105
International Science Film Congress, **93**, 490
school television, **91**, 318
LUCAS, Dr. C. E., Aspects of marine fisheries research, **91**, 286, **93**, 452
LUCAS, Dr. R. L., Translocation in fungi, **93**, 477*
LUPTON, F. G. H., Physiological differences in cereal varieties, **93**, 482*

McDANIEL, J., Translating technical Russian by means of a digital computer, **93**, 447*
MACGREGOR, Prof. A. G., Toxic effects of pest-control agents, **89**, 5
MACMILLAN, Cdr. D. H. T., Modern echo-sounding at Southampton, **93**, 458*
MACWHIRTER, I., Recent developments in colour television, **93**, 444*
MACER, Dr. R. C. F., Breeding for resistance to the cereal rust diseases, **93**, 476*
MAIR, Prof. Lucy, How small-scale societies change, **91**, 308, **93**, 484
Man in Britain, D. R. Brothwell, E. Brown, D. R. Hughes, A. C. Kopec, A. E. Mourant, R. A. Pelham and E. Sunderland, 93, 464–465*
at high and low pressures, J. Ernsting, E. C. Hannen, H. V. Hempleman and K. G. Williams, **93**, 467*
Mann, Dr. P., Self-service and counter-service in urban neighbourhoods, **93**, 484*
MANNERS, Dr. J. G., Yellow rust and yield in wheat, **93**, 475*
MANNING, W. H., Roman and Saxon ploughs and farm tools, **93**, 465*
MANSER, A. R., Alien sociology, **93**, 486*
MARCHANT, C. J., Origin of *Spartina Townsendii*, **93**, 473*
Marine fisheries research, Dr. C. E. Lucas, **91**, 286, **93**, 452
MARLES, Major A. C., Resurvey of the Highlands of Scotland, **93**, 457*
MARSHALL, Dr. W. G., Exploration of solids using thermal neutrons, **93**, 445*
MARTIN, C. A. J., Metric system issue for manufacturers, **93**, 462*
MARTIN, Dr. J. P., Sociological aspects of conviction, **89**, 11
Mathematics, new ideas in teaching, F. M. Arscott, D. A. Quadling, **93**, 446*
School Mathematics Project, B. Thwaites, **91**, 273, **93**, 446
MATTHEWS, Ald. J. H. J., Development cycle and families: introduction, **93**, 482*
MAYBURY, Dr. R. H., International developments in chemical education—some aspects of the work of UNESCO, **93**, 449*
MAYNEORD, Prof. W. V., Background radiations and their origins, **90**, 127
MEE, A. J., Recent developments in science teaching in Scotland, **89**, 65
MEITNER, Lise, Looks back, **89**, 39
MELVILLE, Sir Harry, Contribution of new instruments to progress in chemistry, **92**, 331, **93**, 448
Mental functions, analysis of, through breakdown in illness, Dr. Moyra Williams, **89**, 61
MERCER, Dr. D. M. A., Communication with alien intelligence beings, **93**, 486*
MERRETT, Prof. A. J., Return criteria for public investment, **93**, 460*
Metric system, W. P. Kerkhof, C. A. J. Martin and T. R. B. Sanders, **93**, 462*
Milk production, A. S. Cray, F. H. Dodd and G. N. Gould, **93**, 480–481*
MILLER, Prof. G. A., Computers, communication and cognition, **93**, 417
MILLER, G. R., Management of heather moors, **90**, 163
MITHEN, D. A., New Forest Working Plan, **93**, 479*
MOISLEY, H. A., Land use in the Scottish Highlands: geographical background, **90**, 141
Monkeys, mother-child relations and behaviour of, B. M. Foss, H. F. Harlow, M. K. Harlow and R. A. Hinde, **93**, 469*
MONKHOUSE, Prof. F. J., Southampton region, **93**, 456*
MOODY, Col. N. M. R., Supply and use of home-grown timber, **93**, 478*
MORFEY, C. L., Noise in ducts and ducted fans, **93**, 462*
MORGAN, D. H. J., Women in industry—II. The factory and the home, **93**, 485*
MOURANT, Dr. A. E., Man in Britain—introduction, **93**, 464*
MUNDAY, Prof. K. A., Accelerated freeze drying of foodstuffs, **93**, 468*
Muscular contractions, mechanism of, M. J. Walker, **90**, 132
Museums and the local societies, D. A. Allan and A. G. Bourne, **93**, 486–487*
MYERS, Dr. A., Nucleic acids in the economy of the whole plant, **93**, 477*

NEVILLE, Dr. A. C., Energy and economy in insect flight, **93**, 455*
NEWBOULD, Dr. P. J., Ecological history of the New Forest, **93**, 476*
New Forest, W. A. Cadman, P. J. Newbould and C. G. Tuckfield, **93**, 476*
management of, W. A. Cadman, D. A. Mithen and D. G. Pyatt, **93**, 479*
planning problems, J. F. Barrow, W. A. Cadman, J. H. Hemsley, L. D. Stamp and L. E. Tavener, **93**, 459*
NICHOLSON, I. A., Land use in the Scottish Highlands: influence of management practices on vegetational pattern, **90**, 158

NORTHCOTE, Dr. D. H., Growth and development of the plant cell, **93**, 466*
NORTON, P. E. P., Marine molluscan palaeoecology in the North Sea Neogene, **93**, 454*
Notes and comments, **89**, 1, **90**, 111, **92**, 415
Nuclear physics, why we study high energy, Prof. C. F. Powell, **93**, 445, **94**, 514
Nucleic acids and information transfer, J. N. Davidson, T. Stretton, J. R. Tata and T. S. Work, **93**, 467–468*

Observational sciences, resurgence of interest in, Sir Graham Sutton, **91**, 266, **93**, 486
O'CONNOR, Dr. Neil, Ineducability, **93**, 471*
OGILVIE, L., Epidemiology of black rust in S. W. Britain, **93**, 475*
OSBORN, W. T., Pensions provisions—introduction, **93**, 460*

PANNELL, J. P. M., Docks and harbours of Southampton, **93**, 461*
use of timber in dock and harbour engineering, **93**, 479*
Paper, rising tide of, Dr. D. J. Urquhart, **91**, 279
PARKES, Prof. A. S., Biological aspects of the population explosion, **94**, 509
Pastoralist's problem in semi-arid Australia, R. L. Heathcote, **89**, 47
PATON, J., Noctilucent clouds, **93**, 485*
PATTERSON, Dr. D. S. P., Metabolic and hormonal aspects of ovine pregnancy toxaemia, **93**, 468*
PAUL, Leslie, Education—responsibility of the Church, **93**, 480*
PEEL, Prof. R. F., Inselberg landscapes in the Sahara, **93**, 458*
PELHAM, Dr. R. A., Early history and genetic distributions in Wessex, **93**, 464*
Hampshire and the Crecy Campaign, **93**, 456*
Pensions provisions, State and private, economic and financial impact of, F. W. Bacon and W. T. Osborn, **93**, 460–461*
PENTZ, M., High-energy accelerators of the future, **93**, 445*
Perception, R. J. Audley, **91**, 253
PERRY, B. T., Ancient cultivation and settlement in E. Hampshire and W. Sussex, **93**, 465*
Pest control agents, toxic effects of, Prof. A. G. Macgregor, **89**, 5
PETROW, Dr. V. A., Fertility control by steroidal compounds, **93**, 449
PHILLIPS, C. W., Archaeological mapping in the Ordnance Survey, **93**, 457*
Photon devices, M. R. Brown and J. H. Sanders, **93**, 445*
PIERCE, Prof. T. Jones, Early settlement forms and social arrangements in Wales: literary evidence, **93**, 466*
PILKINGTON, Sir Harry, Education—responsibility of industry, **93**, 480*
Planning and the geography of Great Britain, A. A. L. Caesar, **91**, 230, **93**, 456
Political sociology, E. Ardener, M. Freedman and H. Gray, **93**, 484*
Polymers, degradation of, Dr. N. Grassie, **91**, 297
expanded, S. Baxtor, **91**, 303
Population explosion, biological aspects of, Prof. A. S. Parkes, **94**, 509
POWELL, Prof. C. F., Why we study high-energy nuclear physics, **93**, 445, **94**, 514
PROUDFOOT, Dr. V. B., Bringing archaeology to life, **93**, 466*
PROUDLOVE, J. A., Traffic with safety—by town design, **93**, 462*
Psychology and aviation medicine, A. J. Benson, K. G. G. Corkindale, V. D. Hopkin, J. T. Reason and J. M. Rolfe, **93**, 472–473*
PUGH, D. S., Developments in empirical study of bureaucracy, **93**, 482*
PYATT, D. G., Soils and tree growth in the New Forest, **93**, 479*

QUADLING, D. A., Teaching of mathematics in schools, **93**, 446*

RADFORD, Dr. C. A. Ralegh, Archaeology and history, **92**, 349, **93**, 465
RALPHS, Dr. F. Lincoln, Responsibility and education, **92**, 379, **93**, 479
RAMM, Dr. C. A., High energy neutrino experiments, **93**, 445*
RANWELL, Dr. D. S., Land use aspects of *Spartina* marsh, **93**, 474*
RATCLIFFE, J. A., Sun and the ionosphere, **92**, 323, **93**, 444
RATCLIFFE, S., Computers and air traffic control, **93**, 447*
RAYMONT, Prof. J. E. G., Biochemical studies on zooplankton with reference to *Neomysis integer*, **93**, 452*
REA, Eric, The age of advice, **92**, 390, **93**, 480
REASON, J. T., Illusions of motion and attitude in flight, **93**, 473*
REX, Dr. J. A., Understanding and theory in sociology, **93**, 482*
RICHARDS, D. J. W., Galloping of overhead line conductors, **93**, 446*
Robbins Report, Southampton University and, R. N. M. Robertson, **90**, 114
ROBERTSON, J. C., Sheep and cattle systems of hill land use, **90**, 173
ROBERTSON, R., Functional theory in contemporary sociology, **93**, 482*
ROBERTSON, R. N. M., Southampton University and the Robbins Report, **90**, 114
ROBERTSON, V. C., Investigation and planning of irrigation development in West Pakistan, **93**, 480*
ROBINSON, G. S., Logic of time travel and superlight velocity space travel, **93**, 486*
ROBSON, Dr. A. E., Coelenterate nerve-nets, **93**, 454*
RODGER, Prof. Alec, Capacity and inclination for university courses, **93**, 472*
ROLFE, J. M., Display of information to aircrew: problems and methods, **93**, 473*
ROPER, Prof. J. A., Complex interactions of nucleus and cytoplasm, **93**, 455*
ROWAN, Prof. D. C., Inter-firm efficiency comparisons, **93**, 459*
ROYDS, Dr. A., Comparative effectiveness of television as a means of instruction in elementary science, **93**, 472*
RUSSELL, K. N., Integration of agricultural education and advice, **93**, 480*
RUSSELL, Dr. R. Scott, Accumulation of radioactive isotopes by plants, **93**, 477*
Rust diseases of plants, R. C. F. Macer, J. G. Manners, L. Ogilvie, I. G. Thorpe and W. G. Ziller, **93**, 475–476*
RYLE, G. B., Need for forests in an industrial society, 93, 439, 478

SANDERS, Dr. J. H., Recent developments in gas discharge lasers, **93**, 445*

SANDERS, T. R. B., British Standards in a transition to the metric system, **93**, 462*
SAVORY, J. G., Decay of timber by soft rot fungi, **93**, 474*
Science and behaviour, Lord Brain, **91**, 221
and sea fisheries, V. Bainbridge, **90**, 117
in science fiction, A. R. Manser, D. M. A. Mercer, G. S. Robinson and W. T. Williams, **93**, 486*
teaching in Scotland, A. J. Mee, **89**, 65
SCOTT, Dr. G. D., Lichen symbiosis, **91**, 244
Sea fisheries, science and, V. Bainbridge, **90**, 117
Seismological investigations, 1963, **89**, 98, 1964, **93**, 499
SHEPPERD, Dr. J. A. H., A problem of plaiting braids, **93**, 447*
Silicate structures and chemistry, Dr. H. F. W. Taylor, **89**, 17
SILVERLEAF, A., Hydrofoil ships, **93**, 463*
SIMS, Prof. G. D., Electrical communication—introduction, **93**, 463*
Small-scale societies, how they change, Prof. Lucy Mair, **91**, 308, **93**, 484
SMITH, D., Prevention of decay in timber, **93**, 475*
SMITH, Dr. D. C., Recent studies of lichens (ed), **91**, 241
lichen thallus as functional unit in Nature, **91**, 248
Social fabric, see Universities and, interest, topics of, E. G. S. Evans, D. Forrest, A. Royds and B. G. Stacey, **93**, 471–472*
Sociological theory and methods, A. Giddens, C. R. Hinings, D. S. Pugh, J. A. Rex and R. Robertson, **93**, 482*
Southampton University and the Robbins Report, R. N. M. Robertson, **90**, 114
Southern England, structure of, W. Bullerwell, G. A. Kellaway and A. P. Terris, **93**, 451*
SPARROW, F. H., Examining in English, **93**, 470*
Spartina story, C. E. Hubbard, J. M. Lambert, C. J. Marchant, D. S. Ranwell and W. T. Williams, **93**, 473–474*
STACEY, B. G., Social and psychological consequences of occupational mobility, **93**, 471*
STAMP, Prof. L. Dudley (ed.), Land use in the Scottish Highlands, **90**, 141
New Forest planning problems, **93**, 459*
Steroidal compounds, fertility control by, Dr. V. Petrow, **93**, 449
STEVEN, Prof. H. M., The beneficent forest, **90**, 152
STRETTON, Dr. T., The genetic code, **93**, 468*
STRIDE, A. H., Holocene sedimentation of north-west European seas, **93**, 450*
Subnormality, J. Grad, A. Kushlick, N. O'Connor and G. Wigley, **93**, 471*
Suicide, theoretical problems in the sociology of, A. Giddens, **93**, 482, **94**, 522
Sun and the ionosphere, D. A. Bryant, J. W. King, **93**, 444*, J. A. Ratcliffe, **92**, 323, **93**, 444
SUNDERLAND, Dr. E., Regional variations in P. T. C.-tasting in Great Britain, **93**, 464*
SUTTON, Sir Graham, Resurgence of interest in the observational sciences, **91**, 266, **93**, 486
SWINSCOW, Dr. T. D. V., Classification of lichens, **91**, 241

TALLIS, Dr. J. H., Lichens and atmospheric pollution, **91**, 250
TATA, Dr. J. R., Nucleic acids in hormonal regulation of growth and development, **93**, 468*
TAVENER, Dr. L. E., Agricultural geography of Hampshire, **93**, 456*
New Forest planning problems, **93**, 459*
TAYLOR, Dr. H. F. W., Silicate structures and chemistry, **89**, 17
TAYLOR, Dr. W., University culture and social change, **93**, 472*
TERRIS, A. P., Investigation of underground geology of Southern England, **93**, 451*
THOMAS, M. F., Evolution of Inselberg landscapes in Nigeria, **93**, 458*
THOMSON, G. J., Hovercraft, **93**, 463*
THORPE, Dr. I. G., Epidemiology of black rust in S.W. Britain, **93**, 475*
THWAITES, Prof. B., School Mathematics Project, **91**, 273, **93**, 446
TRASLER, Dr. Gordon, Criminality and the socialisation process, **93**, 470*
TUCKFIELD, C. G., Erosion processes in the New Forest, **93**, 476*
TURNER, C., Cycle of family life in a Pennine parish, **93**, 483*

Universities and the social fabric, D. Downes, J. Drever, A. Rodger and W. Taylor, **93**, 472*
URQUHART, Dr. D. J., Rising tide of paper, **91**, 279
URQUHART, Sir Robert, Highland crofting seen in its national and international contexts, **90**, 188

VAN STEENIS, Prof. Dr. C. G. G. J., On the origin of island floras, **89**, 79
Veterinary physiology and biochemistry, F. R. Bell, R. B. A. Carnaghan, N. F. Cunningham, M. K. Lloyd and D. S. P. Patterson, **93**, 468*
Vulcanology, E. African, W. H. Wilcockson, **92**, 400, **93**, 450

WALKER, M. J., Mechanism of muscular contractions, **90**, 132
WARDLE, P. A., Economic aspects of forestry in the industrial society, **93**, 478*
WARREN, A., Fixed dune sands of Kordofan Province, Sudan, **93**, 459*
Water and the world's food, J. P. Hudson, V. C. Robertson and E. J. Winter, **93**, 480*
WHITE, R. T., Regional planning problems in Southern England, **93**, 457*
WIGLEY, Dr. Guy, Education of the severely subnormal, **93**, 471*
WILCOCKSON, W. H., East African vulcanology, **92**, 400, **93**, 450
WILLIAMS, Prof. B. R., Economics in unwonted places, **93**, 431, 459
WILLIAMS, Dr. K. G., High-pressure oxygen in medicine, **93**, 467*
WILLIAMS, Dr. Moyra, Analysis of mental functions through breakdown in illness, **89**, 61
WILLIAMS, Prof. W. T., Alien biology, **93**, 486*
physiological problem of 'die-back' in *Spartina* and other plants, **93**, 474*
WILSON, Prof. T., Filariasis as a zoonosis, **93**, 453*
WINSTEN, C. B., The computer and problems of economics, **93**, 447*
WINTER, E. J., Factors affecting the efficiency of water use by crops, **93**, 480*
WISE, Prof. M. J., Introduction to regional planning problems in Great Britain, **93**, 456*
Wood decay and preservation, A. T. Bull, K. Goksøyr, E. Hirst, J. G. Savory and D. Smith, **93**, 474–475*
in ships and docks, J. M. Ford, J. L. Howard, N. M. R. Moody and J. P. M. Pannell, **93**, 478–479*

WOODWARD, P. M., Man-machine communication, **93**, 447*
WORK, Dr. T. S., Synthesis of protein molecules, **93**, 467*
WRIGHT, Dr. C. A., Snailborne zoonoses, **93**, 453*
WRIGLEY, Prof. J., Certificate of Secondary Education examination, **93**, 470*
WYNNE-EDWARDS, Prof. V. C., Multi-purpose land use and conservation in the Highlands, **90**, 177

YANG, Dr. Shu-Chin, Foreign trade problems in economic development, **89**, 27
YATES, A. H., Air flow over mountains, **93**, 446*
YOUNG, Miss A. F., The British scheme of Industrial Injuries Insurance, **93**, 484*
Young engineers' papers, B. R. Cox, R. E. Hurley and C. L. Morfey, **93**, 462*
YOUNG, Prof. F. G., Biochemistry of the endocrine system, **92**, 369, **93**, 466
Irradiation of food, **93**, 468*
YOUNG, Dr. Michael, Education—responsibility of the parent and the school, **93**, 479*

ZBROZEK, J. K., High-altitude turbulence and supersonic aircraft, **93**, 485*
ZILLER, Dr. W. G., Life cycles of tree rusts and their significance to forestry, **93**, 475*